



# HF Happenings



**608**

South African Radio League \* Suid-Afrikaanse Radioliga  
Member Society of the International Amateur Radio Union since 1925  
[www.sarl.org.za](http://www.sarl.org.za) [www.iaru.org](http://www.iaru.org) [www.iaru-r1.org](http://www.iaru-r1.org)

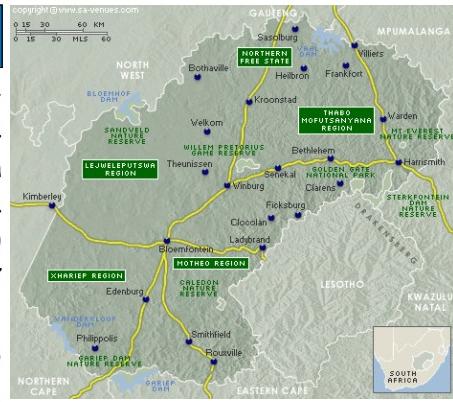
June  
2014

## ZS4 Sprint

**T**his is a fun activity to promote contacts between radio amateurs in the Free State and radio amateurs in Southern African countries. The Sprint takes place on Sunday 8 June from 14:00 to 15:00 UTC with phone activity on 7 130 - 7 190 kHz and CW activity on 7 000 - 7 040 kHz.

The exchange for ZS4 stations is a RS (T) report and the town name or abbreviation. For other stations the exchange is a RS(T) report and provincial or country abbreviation. Scoring for ZS4 stations - Contacts with stations in ZS4 are worth 1 point and contacts with stations in other ZS call areas or Southern African countries are worth 2 points. Scoring for all other stations - Contacts with stations in ZS4 are worth 2 points and contacts with stations in own or other ZS call areas (excluding ZS4) or Southern African countries are worth 1 point. Contacts with the Bloemfontein ARC, ZS4BFN, Vrystaat Radioklub, ZS4B, Welkom Radio Club, ZS4WRC, and the Sasolburg ARC, ZS4SRK, are worth 5 points each, only one contact per station is allowed.

Log sheets shall be submitted by 16 June 2014 to [zs4srk@gmail.com](mailto:zs4srk@gmail.com). A certificate will be awarded to the 1st, 2nd and 3rd place in the competition.



Have **YOU** done anything today to Promote Amateur Radio?

## June

- 1 - Comrades Marathon
- 5 - 80th birthday of my Mother-in-law; World Environmental Day
- 8 - ZS4 Sprint; World Oceans Day; Pentecost
- 14 and 15 - Calitzdorp Port and Wine Festival
- 15 - Father's Day
- 16 - Youth Day
- 17 - World QRP Day
- 19 to 22 - SARL Top Band QSO Party
- 21 - Radio Technology in Action in Durban
- 27 - Schools close
- 27 to 29 - Ham Radio 2014 in Friedrichshafen, Germany; Wildsfees, Kirkwood
- 28 - Start of Ramadan
- 28 and 29 - ARRL Field Day

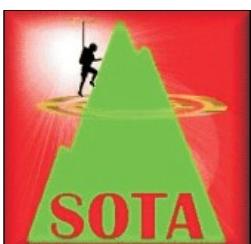
## July

- 12 and 13 - IARU HF Championships; WRTC 2014
- 19 - Winter QRP Contest
- 21 - Schools open
- 26 and 27 - RSGB IOTA Contest
- 28 - Eid-ul-Fitr

**D**uring the long weekend (12a to 16 June) there will be some SOTA Activity from the Free State and Mpumalanga. From Secunda comes the news that Gert, ZS6GC, Lucas, ZS6ACT, Sid, ZS5AYC, Adele, ZS5APT, Willie, ZS6WBT, Hoffie, ZS6BAB and Christo, ZR6LJK, will activate Wynberg, MP-005 on Saturday 14 June. On Sunday 15 June, they are planning to activate Kanonkop, MP-007 and there is a possibility of activating Ossewakop, MP-004 on Monday 16 June. They will be active on 7 090, 14 160 kHz and 145.525 MHz after 09:00 CAT on each day.

Sid, ZS6AYC, and Adele, ZS5APT, have indicated that they may activate a few summits later in the week. Sid mention Mount Anderson, MP-002 as a possibility.

Then Dennis, ZS4BS, plans to activate Mount Paul, FS-012 on Saturday 14 June with activity from about 09:30 CAT on 7 090, 14 160 kHz and 145,500 MHz (for radio amateurs in Bethlehem and Harrismith!) There is also a geocache on Mount Paul - GC3HRT1 - that I need to find! I am thinking about activating Platberg, FS-004 on Sunday 15 June.



(Continued on page 2)

Current Summits-on-the-Air (SOTA) activities are announced at [www.sotawatch.org](http://www.sotawatch.org)  
And more SOTA information can be found at  
[www.sota.org.uk](http://www.sota.org.uk) and [www.zs4bfn.co.za/sota.asp](http://www.zs4bfn.co.za/sota.asp)

# HF Happenings

(Continued from page 1)

It is hoped to make the first summit to summit QSO in South Africa on Saturday 14 June. A challenge is issued to activate other summits during the long weekend. The South African Association Reference Manual is available at [www.zs4bfn.co.za/sota.asp](http://www.zs4bfn.co.za/sota.asp). Also visit the SARL and Zone 38 Facebook pages for updates.

## SARL Top Band QSO Party

**T**his is a fun activity to promote contacts on 160 metres between radio amateurs in Southern African countries and to encourage radio amateurs to apply for the South African Radio League's Top Band Certificate. The QSO Party is open to all licensed amateurs that have access to the 160 metre band.

The QSO Party runs from 00:00 UTC (02:00 CAT) on Thursday 19 June 2014 to 00:00 UTC (02:00 CAT) on Monday 23 June 2014. The following modes and frequencies must be used - Phone: 1 840 to 1 850 kHz and CW 1 810 to 1 838 kHz



The exchange is a RS(T) report and provincial or country abbreviation. Following the QSO, the station must change dial frequency by at least 2 KHz for the next QSO, unless a period of 10 minutes has lapsed between contacts. The frequency of each QSO must be shown on the log sheet.

Each station can be worked once per mode i.e. once on Phone and again with CW. Each contact will count three (3) points. Each South African call area and each DXCC country worked will be awarded with five (5) additional bonus points. Total Score = (Total QSO points) + (Bonus points). Log sheets must be submitted by 30 June 2014 to [contest@sarl.org.za](mailto:contest@sarl.org.za).

### SARL Top Band Certificate

Its aim is to encourage more 160 m QSOs with southern African countries.

South African stations must submit proof of having contacted at least six different southern African call areas, of which at least five must be in the Republic of South Africa. The sixth contact can be from the remaining South African call area (ZS), or from any of the bordering countries (Botswana, Lesotho, Mozambique, Namibia, Swaziland or Zimbabwe).

## Swiss 5 MHz Experimental Beacon Project

**A**lthough the 60 m band has not been released for amateur radio in Switzerland, the Sursee Amateur Radio Club has obtained the necessary official authorizations for a Swiss 5 MHz Experimental Beacon project. Using the call sign HB9AW, the beacon became operational on 5 291 kHz at 00:00 UTC on 1 June.

The transmission commences with the call sign HB9AW on CW (100HA1B), followed by five 2 seconds-long dashes. The dashes are each accurately attenuated by 10 dB in the EIRP power sequence 10 W / 5 W / 1 Watt / 100 mW concluding with 10 mW and currently repeats every 5 minutes, commencing on the hour.

The beacon transmits from Sursee (Locator: JN43ba), in the canton of Lucerne, on a half-wave dipole, configured for high-angle radiation as an NVIS 'fountain' type antenna at a height above ground of 0,12 of a wavelength. A reflector is placed beneath the antenna. The aim of the system is to explore the propagation conditions on 5 MHz in the hills and valleys of Switzerland in relation to its possible suitability as an Emergency Communications band. They have deliberately chosen this type of steep radiation-angle antenna to study the propagation conditions within Switzerland itself and at the moment DX is only of secondary interest to them.

They expect that the beacon will be heard during the day and night hours across Switzerland including the Alpine valleys. An on-line form on the Sursee Amateur Radio Club's website accepts reception reports. The evaluation of these is done by a technical college. Reception reports are appreciated and will be entered into a raffle for an attractive prize!

A detailed description of the installation will appear in due course. Sursee Amateur Radio Club website 5 MHz Beacon Project page <http://www.hb9aw.ch/bake-5000khz/was-ist-eine-bake/>



## D-Day Special Event Stations to be Active

**O**n 6 June 1944, 160 000 Allied troops landed along a 50 mile stretch of heavily-fortified French coastline to fight Nazi Germany on the Normandy beaches. The attack was a major turning point in the war. More than 5 000 ships and 13 000 aircraft supported the invasion, in which more than 9 000 Allied soldiers were killed or wounded.



TM70JUN will be on the air from 6 June until 20 June. Modes will be SSB, CW, PSK, RTTY, and JT65 on HF and 6 meters.

TM70BMC will operate from Mont Canisy on 5 to 8 June.

TM70DD will be active from 5 to 19 June 5.

The TM70OUTAH operation on HF and VHF, SSB, CW and digital modes is underway and will conclude on 12 June.

W9D will be active on SSB, CW and AM on HF to 6 meters from 6 to 8 June from the First Division War Museum in Winfield, Illinois.

The Riverway Amateur Radio Society will sponsor special event station GB70DDL from 1 to 28 June from the Sea Cadet headquarters in Stafford, England.

VC3JUNO from Canada will be on the air from 6 June until 31 July to commemorate the 70<sup>th</sup> anniversary of D-Day; "Juno" was the code name for the beach where Canadian forces landed.

F/PA70DDAY will be from the "Nan Green Sector" of Juno Beach in Normandy. This operation is already underway and scheduled to conclude 9 June. Operation will be on 80, 40, and 20 metres, SSB.

F/ON6JUN/p will take place 4 to 8 June from Ranville in Normandy.

## African Islands

Maderia. Rene, DL2JRM, plans to be active as CT9/DL2JRM from Ilha da Madeira (AF-014, DIP MA-001, PIP MD-001, WLOTA 0053) from 12 to 19 June 2014. Activity is holiday style on 80 to 10 metres, using 100 Watts and a GP. QSL direct or Bureau to DL2JRM.



Egypt. A team from ERASD (The Egyptian Radio Amateurs Society For Development) will again be active from Nelson's Island (IOTA AF-109) between 13 and 20 June 2014. The team will also activate the Nelson's Island lighthouse (WLOTA 2694, Admiralty E6168) during the same time frame. Plans are to be active using all modes on 40, 20, 17, 15, 17 and 12 metres. QSL via SM5AQD. Website: [www.grz.com/db/SU8N](http://www.grz.com/db/SU8N) and [www.qsl.net/egyptham/](http://www.qsl.net/egyptham/)

Zanzibar Island. Giovanni, IW2NEF, plans activity from Zanzibar Island (AF-032, WLOTA 1080) as 5H1NE (call pending) between 22 July and 6 August 2014. Activity on the HF bands, SSB only. QSL via IK2DUW.

Cape Verde Islands. Harald, DF2WO, will again be active holiday-style from Praia, on the southern coast of Santiago Island (AF-005) in the Sotavento Islands group, Cape Verde Islands, as D44TWO between 12 December 2014 and 8 January 2015. He will active on the HF bands, using CW and SSB. QSL via MOOXO. This activity follows his operation as XT2AW.

## Operating Tip

Reading through old logs sounds boring but it often sparks great memories - like "remember the time a (fill in the blank) called in when I thought the band was closed?" These are often reminders of unusual propagation and events that you can put to work in future contests.

## Word to the Wise

**BIC** - not the pen, it's an abbreviation for "butt in chair," which is how you exceed your contest goals and win some of those certificates and plaques. You can't click without BIC!

# HF Happenings

## Introducing N1MM Logger Plus

A highly anticipated presentation at the Dayton Hamvention's Contest Forum was "Introducing N1MM Logger Plus." The quarter-million lines of code (so I'm told) have been transported to a new framework that upgrades the way many important functions are displayed. The development team has obviously listened closely to the contest community, making better use of colour and data display techniques.

If you would like to learn more about the changes, the presentation is archived as MP4-format files on the N1MM Logger website <http://n1mm.hamdocs.com/tiki-index.php?page=Introducing+N1MM+Logger+Plus>.

## Web Site of the Week

Jim W4ENE has announced the release of an updated version of *PIZZA*, which is a polar-projection mapping program that offers a variety of configurations and options. <http://tonnesoftware.com/pizza.html>



## International Lighthouse and Lightship Weekend

I had a look at the web site for the International Lighthouse and lightship weekend, held in August each year. To date I see only two of our lighthouses listed.

The Cape Town ARC operating as ZS1CT/lh are going to activate Green Point lighthouse, ZA0006.

The guys from the Highway ARC, ZS5HAM, are going to activate Green Point lighthouse, ZA0018. No, not the same one as Cape Town! I am sure more South African lighthouses will be joining that list closer to the weekend of 16 and 17 August.

## IARU HF Championships

T he objective is to contact as many other amateurs, especially IARU member society HQ stations, around the world as possible using the 160, 80, 40, 20, 15 and 10 metre bands. No contest QSOS on 12, 17, 30 or 60 metres. On any band, a station may be worked once on Phone (in the Phone segment) and once on CW (in the CW segment).

The contest takes place on the second full weekend of July, beginning 12:00 UTC Saturday and ending 12:00 UTC Sunday - 12 and 13 July 2014. Both Single and Multi operator stations may operate the entire 24-hour period.

The contest exchange - IARU member society HQ stations send signal report and official IARU member society abbreviation. IARU International Secretariat club station NU1AW counts as a HQ station. Members of the IARU Administrative Council and the three IARU regional Executive committees send "AC," "R1," "R2," and "R3" as appropriate. All others send signal report and ITU zone. A complete exchange must be logged for each valid QSO.

## Contest Calendar

This week's contests compiled by Bruce Horn, WA7BNM. The period covered is 2 to 9 June 2014

NCCC RTTY Sprint

02:00 UTC-02:30 UTC 6 June

Mode: RTTY

Bands: (see rules)

Classes: (none)

Exchange: (see rules)

Score Calculation: Total score = total QSO points x  
total mults

Submit logs by: 8 June 2014

E-mail logs to: (none)

Post log summary at: <http://www.3830scores.com/>

Mail logs to: (none)

Find rules at: <http://www.nccsprint.com/rttyns.html>

NCCC Sprint Ladder

02:30 - 03:00 UTC 6 June

Mode: CW

Bands: 160, 80, 40, 20 m

Classes: Single Op

Max power: 100 watts

Exchange: (see rules)

(Continued on page 5)

(Continued from page 4)

Work stations: Once per band

QSO Points: NA station: 1 point per QSO; non-NA station: 1 point per QSO with an NA station

Multipliers: Each US state (including KL7 and KH6) once per band; Each VE province once per band; Each North American country (except W/VE) once per band

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 8 June 2014

E-mail logs to: (none)

Post log summary at: <http://www.3830scores.com>

Mail logs to: (none)

Find rules at: <http://www.nccsprint.com/rules.html>

#### DigiFest

0400Z-1200Z 7 June and 2000Z 7 June to 0400Z 8 June and 1200Z-2000Z 8 June

Mode: RTTY75, BPSK63, MFSK16, HELLSCHREIBER, OLIVIA

Bands: 80, 40, 20, 15, 10 m

Classes: SOAB, All Modes - 8 or 24 - low or high; SO-AB, Single Mode - 8 or 24 - low or high; Single Op Single Band, All Modes - 8 or 24 - low or high; Multi-Op Single Transmitter

Max power: High: 1 000 watts; Low: 100 watts

Exchange: RST and 4-character grid square

Work stations: Once per band per mode

QSO Points: 1 QSO point per km between stations

Multipliers: Each grid square once

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 15 June 2014

E-mail logs to: [digifest\\_robot@mixw.net](mailto:digifest_robot@mixw.net)

Upload log at: [http://mixw.net/misc/DigiFest/digifest\\_log.php](http://mixw.net/misc/DigiFest/digifest_log.php)

Mail logs to: (none)

Find rules at: <http://www.mixw.net/misc/DigiFest/rulese2014.html>

#### HA3NS Sprint Memorial Contest

18:00 - 18:29 UTC 6 June (40 m) and 18:30 - 18:59

UTC 6 June (80 m)

Mode: CW

Bands: 80, 40 m

Classes: Single Op

Exchange: HACWG Members: RST and membership no; non-Members: RST and NM

QSO Points: 1 point per QSO

Multipliers: (none)

Score Calculation: Total score = total QSO points

Submit logs by: 21 June 2014

E-mail logs to: [ha3kna@tolna.net](mailto:ha3kna@tolna.net)

Mail logs to: Radio Club, 7100 Szekszard, Rakoczi u. 16., Hungary

Find rules at: <http://radioamator.honlapepitese.hu/?p=1280>

#### 10-10 International Open Season PSK Contest

00:00 UTC 7 June to 24:00 UTC 8 June

Mode: PSK31

Bands: 10 m Only

Classes: Individual; Club; QRP

Max power: non-QRP: 50 watts; QRP: 5 watts

Exchange: Name, state, province or country and organization membership numbers

QSO Points: (see rules)

Multipliers: (none)

Score Calculation: Total score = total QSO points

Submit logs by: 23 June 2014

E-mail logs to: [tentencontest@ten-ten.org](mailto:tentencontest@ten-ten.org)

Mail logs to: Dan Morris, KZ3T, 3162 Covington Way, Lenoir, NC 28645, USA

Find rules at: <http://www.ten-ten.org/index.php/activity/2013-07-22-20-26-48/qso-party-schedule/2-uncategorised/51-open-season-rules>

#### Wake-Up! QRP Sprint

06:00 - 06:29 UTC, 06:30 - 06:59 UTC, 07:00 - 07:29 UTC and 07:30 - 08:00 UTC 7 June

Mode: CW

Bands: 40, 20 m

Classes: (none)

Max power: 5 watts

Exchange: RST, serial no and suffix of previous QSO ("QRP" for 1st QSO)

Work stations: Once per band per period

QSO Points: 1 point per km

Multipliers: 1 point per new station worked on each band

Score Calculation: Total score = total QSO points x total multiplier points

Submit logs by: 14 June 2014

E-mail logs to: [ru-qrp-club@mail.ru](mailto:ru-qrp-club@mail.ru)

Mail logs to: (none)

Find rules at: <http://qrp.ru/contest/wakeup/333-wakeup-eng>

#### VK Shires Contest

06:00 UTC 7 June to 06:00 UTC 8 June

(Continued on page 6)

## HF Happenings

(Continued from page 5)

Mode: CW, SSB

Bands: 80, 40, 20, 15, 10 m

Classes: VK Single Op - rover or fixed; VK Multi-Two - rover or fixed; DX Single Op

Exchange: VK: RS(T) and Shire; non-VK: RS(T) and CQ Zone

Work stations: Once per band per mode

QSO Points: 1 point per QSO

Multipliers: Each VK shire once per band per mode; VK: Each CQ zone once per band per mode

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 1 July 2014

E-mail logs to: [contest@vk2bo.com](mailto:contest@vk2bo.com)

Mail logs to: (none)

Find rules at: <http://vkshires.vk2bo.com/vk-shires-contest-rules.html>

### SEANET Contest

12:00 UTC 7 June to 12:00 UTC 8 June

Mode: CW, Phone

Bands: 80, 40, 20, 15, 10 m

Classes: Single Op; M/S

Exchange: RS(T) and serial no

Work stations: Once per band

QSO Points: 1 point per QSO

Multipliers: SEANET: Each DXCC country once per band; non-SEANET: Each SEANET DXCC country once per band

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 1 July 2014

E-mail logs to: [contest@seanet2014.com](mailto:contest@seanet2014.com)

Mail logs to: Seanet Contest 2014, ORARI Headquarters, Indonesia Amateur Radio Organization

Gedung Sasana Prasada Karya Lantai 10, Jalan Suryo Pranoto No. 8 Jakarta 10130, PO Box 1096 JKT 10010, Jakarta - Indonesia

Find rules at: <http://www.seanet2014.com/#!contest/clvj>

### SKCC Weekend Sprintathon

12:00 UTC 7 June to 24:00 UTC 8 June

Mode: CW

Bands: 160, 80, 40, 20, 15, 10, 6 m

Classes: (none)

Max operating hours: 24

Exchange: RST, name, state, province or country and SKCC no or "NONE"

Work stations: Once per band

QSO Points: 1 point per QSO

Bonus Points: (see rules)

Multipliers: Each state, province, or country once

Score Calculation: Total score = (total QSO points x total mults) and bonus points

Submit logs by: 15 June 2014

Post log summary at: <http://wes.m0trn.com/submission.php>

Mail logs to: (none)

Find rules at: [http://www.skccgroup.com/operating\\_activities/weekend\\_sprintathon/](http://www.skccgroup.com/operating_activities/weekend_sprintathon/)

### RSGB National Field Day

15:00 UTC 7 June to 15:00 UTC 8 June

Mode: CW

Bands: 160, 80, 40, 20, 15, 10 m

Classes: Open; Restricted; Low Power

Max operating hours: Open/Restricted: 24 hours; Low Power: 12 hours

Max power: non-LP: 100 watts; LP: 10 watts

Exchange: RST and serial no

QSO Points: 2 points per QSO with fixed EU stations; 3 points per QSO with fixed non-EU stations; 4 points per QSO with portable/mobile EU stations; 6 points per QSO with portable/mobile non-EU stations; Double QSO points on 160 m and 10 m

Multipliers: (none)

Score Calculation: Total score = total QSO points

Submit logs by: 24 June 2014

Upload log at: <http://www.rsgbcc.org/cgi-bin/hfenter.pl>

Mail logs to: RSGB G3UFY, 77 Bensham Manor Road, Thornton Heath, Surrey CR7 7AF, England

Find rules at: <http://www.rsgbcc.org/hf/rules/2014/rnfd.shtml>

### IARU Region 1 CW Field Day

15:00 UTC 7 June to 14:59 UTC 8 June

Mode: CW

Bands: 160, 80, 40, 20, 15, 10 m

Classes: (see your national society rules)

Exchange: RST and serial no

Submit logs by: 30 June 2014

E-mail logs to: (see your national society rules)

Mail logs to: Your national society

Find rules at: Your national society web site

### Alabama QSO Party

16:00 UTC 7 June to 04:00 UTC 8 June

Mode: CW, SSB

Bands: 160, 80, 40, 20, 15, 10 m

(Continued on page 7)

# HF Happenings

HF Happenings-subscribe@yahoo-groups.com

(Continued from page 6)

Classes: Single Op - CW, SSB or mixed - QRP, low or high; M/S - CW, SSB or mixed - QRP, low or high; M/M - CW, SSB or mixed - QRP, low or high; Mobile Single Op - CW, SSB or mixed - QRP, low or high; Mobile Single Op and Driver - CW, SSB or mixed - QRP, low or high; Mobile Multi-Op - CW, SSB or mixed - QRP, low or high; Rover Single Op - CW, SSB or mixed - QRP, low or high; Rover M/S - CW, SSB or mixed - QRP, low or high; Rover M/M - CW, SSB or mixed - QRP, low or high

Max power: HP: >150 watts; LP: 150 watts; QRP: 5 watts

Exchange: AL: RS(T) and County; non-AL: RS (T) and state, province or "DX"

QSO Points: 1 points per phone QSO; 2 points per CW QSO

Multipliers: AL Stations: Each state, VE province/territory once per mode; non-AL Stations: Each AL county once per mode  
Score Calculation: Total score = total QSO points x total mults

Submit logs by: 7 July 2014

E-mail logs to: [logs@alabamraqsoparty.org](mailto:logs@alabamraqsoparty.org)

Mail logs to: Jim Johnson, KC4HW, 6274 South Country Road 49, Slocumb, AL 36375-5528, USA

Find rules at: <http://www.alabamraqsoparty.org/2014/2014Rules.pdf>

Get on the RaDAR....and GO!



## Next Weeks Contests

NAQCC Straight Key/Bug Sprint, 00:30 - 02:30 UTC 11 June

CWops Mini-CWT Test, 13:00 - 14:00 UTC, 19:00 - 20:00 UTC 11 June and 03:00 - 04:00 UTC 12 June

RSGB 80 m Club Championship, CW, 19:00 - 20:30 UTC 11 June

NCCC RTTY Sprint, 02:00 - 02:30 UTC 13 June

DRCG WW RTTY Contest, 00:00 - 07:59 UTC, 16:00 - 23:59 UTC 14 June and 08:00 - 15:59 UTC 15 June

Asia-Pacific SSB Sprint, 11:00 - 13:00 UTC 14 June

Portugal Day Contest, 12:00 UTC 14 June to 12:00 UTC 15 June

GACW WWSA CW DX Contest, 15:00 UTC 14 June to 15:00 UTC 15 June

QRP ARCI QRP Shootout, 15:00 - 21:00 UTC 14 June (CW), 15:00 - 21:00 UTC 15 June (SSB)

REF DDFM 6m Contest, 16:00 UTC 14 June to 16:00 UTC 15 June

West Virginia QSO Party, 16:00 UTC 14 June to 02:00 UTC 15 June

ARRL June VHF Contest, 18:00 UTC 14 June to 02:59 UTC 16 June

Run for the Bacon QRP Contest, 01:00 - 03:00 UTC 16 June

## History this Week, week starting 2 June 14

780 BC - First total solar eclipse reliably recorded by Chinese

1752 - Ben Franklin's kite is struck by lightning - what a shock!

1783 - The first hot-air balloon ascent - unmanned - flew for ten minutes - Montgolfier

1786 - First commercially-made ice cream sold (New York)

1825 - The first time natural gas was used for illumination was in Fredonia, in western New York

1882 - Electric iron patented by Henry W. Seely, New York

1896 - Marconi British patent no 12039, a system of telegraphy using Hertzian waves

1901 - Guglielmo Marconi received a reissued patent "Wireless Telegraphy"

1910 - First round trip flight over the English Channel (C.S. Rolls, England)

1912 - US army tests first machine gun mounted on a plane

1929 - George Eastman demonstrated the first Technicolor movie (Rochester, NY)

1934 - Birth of my mother-in-law

1956 - Birth of ZS4BS

1977 - First personal computer, the Apple II, goes on sale

Items used with acknowledgement to The ARRL Letter, Amateur Radio Newsline, OPDX Bulletin, 425 DX Bulletin, DXNL DX Newsletter, ARRL DX News, WIA-News, the RSGB News, Southgate ARC News, DxCoffee and the Islands, Castles & Portable Operations Bulletin